

## Refine Search

### Search Results -

Terms	Documents
L7 and reaction zone	33

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

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L8

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### Search History

DATE: Friday, November 23, 2007   [Purge Queries](#)   [Printable Copy](#)   [Create Case](#)

<u>Set</u> <u>Name</u> side by side	<u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
<u>L8</u>	L7 and reaction zone	33	<u>L8</u>
<u>L7</u>	L6 and 562/\$	53	<u>L7</u>
<u>L6</u>	L5 and (ruthenium or osmium or rhenium) and (indium or cadmium or mercury or gallium or zinc)	69	<u>L6</u>
<u>L5</u>	L3 and iridium and methyl iodide and methyl acetate	209	<u>L5</u>
<u>L4</u>	L3 and iridium and methyl iodide and methyl acetate	0	<u>L4</u>
<u>L3</u>	acetic acid and carbonyl\$9 methanol	621	<u>L3</u>
<u>L2</u>	acetic acid and carbonyl\$9	88441	<u>L2</u>
<i>DB=PGPB; PLUR=YES; OP=ADJ</i>			
<u>L1</u>	20060122422	1	<u>L1</u>

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Search Results - Record(s) 1 through 10 of 33 returned.

☐ 1. Document ID: US 20070225521 A1

L8: Entry 1 of 33

File: PGPB

Sep 27, 2007

PGPUB-DOCUMENT-NUMBER: 20070225521

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20070225521 A1

TITLE: Acetic acid production methods incorporating tin or ruthenium catalyst stabilizers

PUBLICATION-DATE: September 27, 2007

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Torrence; G. Paull	League City	TX	US

US-CL-CURRENT: 562/519

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KWC</a>	<a href="#">Draw. D</a>
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☐ 2. Document ID: US 20060173212 A1

L8: Entry 2 of 33

File: PGPB

Aug 3, 2006

PGPUB-DOCUMENT-NUMBER: 20060173212

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060173212 A1

TITLE: Carbonylation process using metal-tridentate ligand catalysts

PUBLICATION-DATE: August 3, 2006

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Gaemers; Sander	East Riding of Yorkshire		GB
Sunley; John Glenn	East Yorkshire		GB

US-CL-CURRENT: 562/519

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KWC</a>	<a href="#">Draw. D</a>
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☐ 3. Document ID: US 20060122422 A1

L8: Entry 3 of 33

File: PGPB

Jun 8, 2006

PGPUB-DOCUMENT-NUMBER: 20060122422

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060122422 A1

TITLE: Process for the production of acetic acid

PUBLICATION-DATE: June 8, 2006

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Key; Lesley Ann	Preston		GB
Payne; Marc John	Henley-on-Thames		GB
Poole; Andrew David	Brough		GB

US-CL-CURRENT: 562/519

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 4. Document ID: US 20060052631 A1

L8: Entry 4 of 33

File: PGPB

Mar 9, 2006

PGPUB-DOCUMENT-NUMBER: 20060052631

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060052631 A1

TITLE: Flexible method for the joint production of (i) formic acid, (ii) a carboxylic acid comprising at least two carbon atoms and/or the derivatives thereof, and (iii) a carboxylic acid anhydride

PUBLICATION-DATE: March 9, 2006

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Pastre; Jorg	Bensheim		DE
Exner; Kai Michael	Eppelheim		DE
Stuer; Wolfram	Mannheim		DE
Geibler; Elke	Ludwigshafen		DE
Machhammer; Otto	Mannheim		DE

US-CL-CURRENT: 562/400; 562/888

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 5. Document ID: US 20050049434 A1

L8: Entry 5 of 33

File: PGPB

Mar 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050049434  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20050049434 A1

TITLE: Fluidizable carbon catalysts

PUBLICATION-DATE: March 3, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Tustin, Gerald Charles	Kingsport	TN	US
Zoeller, Joseph Robert	Kingsport	TN	US
Colberg, Richard Dale	Kingsport	TN	US

US-CL-CURRENT: 562/517; 502/159, 502/180, 502/182

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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## 6. Document ID: US 20030212295 A1

L8: Entry 6 of 33

File: PGPB

Nov 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030212295  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030212295 A1

TITLE: Continuous carbonylation process

PUBLICATION-DATE: November 13, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Charles, Gerald	Kingsport	TN	US
Michelle, Regina	Church Hill	TN	US

US-CL-CURRENT: 562/518

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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## 7. Document ID: US 20030065217 A1

L8: Entry 7 of 33

File: PGPB

Apr 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030065217  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030065217 A1

TITLE: Method for carbonylation of lower aliphatic alcohols using tin promoted

iridium catalyst

PUBLICATION-DATE: April 3, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Zoeller, Joseph	Kingsport	TN	US
Singleton, Andy	Kingsport	TN	US
Tustin, Gerald	Kingsport	TN	US
Carver, Donald	Church Hill	TN	US

US-CL-CURRENT: 562/550; 560/232

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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8. Document ID: US 20030060660 A1

L8: Entry 8 of 33

File: PGPB

Mar 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030060660

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030060660 A1

TITLE: Method for carbonylation of lower alkyl alcohols using tungsten promoted group VIII catalyst

PUBLICATION-DATE: March 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Zoeller, Joseph	Kingsport	TN	US
Singleton, Andy	Kingsport	TN	US
Tustin, Gerald	Kingsport	TN	US
Carver, Donald	Church Hill	TN	US

US-CL-CURRENT: 562/550; 560/232

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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9. Document ID: US 20030018212 A1

L8: Entry 9 of 33

File: PGPB

Jan 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030018212

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030018212 A1

TITLE: Method for carbonylation of lower aliphatic alcohols using tin promoted platinum catalyst

PUBLICATION-DATE: January 23, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Zoeller, Joseph Robert	Kingsport	TN	US
Singleton, Andy Hugh	Kingsport	TN	US
Tustin, Gerald Charles	Kingsport	TN	US
Carver, Donald Lee	Church Hill	TN	US

US-CL-CURRENT: 562/519; 560/232, 562/520

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw. De
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10. Document ID: US 7276626 B2

L8: Entry 10 of 33

File: USPT

Oct 2, 2007

US-PAT-NO: 7276626

DOCUMENT-IDENTIFIER: US 7276626 B2

TITLE: Carbonylation process using metal-tridentate ligand catalysts

## PRIOR-PUBLICATION:

DOC-ID

DATE

US 20060173212 A1

August 3, 2006

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw. De
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☐ 11. Document ID: US 7253316 B2

L8: Entry 11 of 33

File: USPT

Aug 7, 2007

US-PAT-NO: 7253316

DOCUMENT-IDENTIFIER: US 7253316 B2

TITLE: Flexible method for the joint production of (i) formic acid, (ii) a carboxylic acid comprising at least two carbon atoms and/or the derivatives thereof, and (iii) a carboxylic acid anhydride

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20060052631 A1

March 9, 2006

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 12. Document ID: US 6916951 B2

L8: Entry 12 of 33

File: USPT

Jul 12, 2005

US-PAT-NO: 6916951

DOCUMENT-IDENTIFIER: US 6916951 B2

\*\* See image for Certificate of Correction \*\*

TITLE: Continuous carbonylation process

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 13. Document ID: US 6646154 B2

L8: Entry 13 of 33

File: USPT

Nov 11, 2003

US-PAT-NO: 6646154

DOCUMENT-IDENTIFIER: US 6646154 B2

TITLE: Method for carbonylation of lower alkyl alcohols using tungsten promoted group VIII catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 14. Document ID: US 6627770 B1

L8: Entry 14 of 33

File: USPT

Sep 30, 2003

US-PAT-NO: 6627770

DOCUMENT-IDENTIFIER: US 6627770 B1

TITLE: Method and apparatus for sequestering entrained and volatile catalyst species in a carbonylation process

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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☐ 15. Document ID: US 6617471 B2

L8: Entry 15 of 33

File: USPT

Sep 9, 2003

US-PAT-NO: 6617471

DOCUMENT-IDENTIFIER: US 6617471 B2

TITLE: Method for carbonylation of lower aliphatic alcohols using tin promoted iridium catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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☐ 16. Document ID: US 6613938 B2

L8: Entry 16 of 33

File: USPT

Sep 2, 2003

US-PAT-NO: 6613938

DOCUMENT-IDENTIFIER: US 6613938 B2

TITLE: Method for carbonylation of lower aliphatic alcohols using tin promoted platinum catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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☐ 17. Document ID: US 6548444 B2

L8: Entry 17 of 33

File: USPT

Apr 15, 2003

US-PAT-NO: 6548444

DOCUMENT-IDENTIFIER: US 6548444 B2

TITLE: Tin promoted iridium catalyst for carbonylation of lower alkyl alcohols

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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☐ 18. Document ID: US 6537944 B1



L8: Entry 18 of 33

File: USPT

Mar 25, 2003

US-PAT-NO: 6537944

DOCUMENT-IDENTIFIER: US 6537944 B1

TITLE: Tungsten promoted catalyst for carbonylation of lower alkyl alcohols

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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19. Document ID: US 6452043 B1

L8: Entry 19 of 33

File: USPT

Sep 17, 2002

US-PAT-NO: 6452043

DOCUMENT-IDENTIFIER: US 6452043 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Carbonylation of lower alkyl alcohols and their derivatives using metals supported on carbonized polysulfonated divinylbenzene-styrene copolymers

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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20. Document ID: US 6441222 B1

L8: Entry 20 of 33

File: USPT

Aug 27, 2002

US-PAT-NO: 6441222

DOCUMENT-IDENTIFIER: US 6441222 B1

TITLE: Vapor phase carbonylation process using iridium-gold co-catalysts

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 21. Document ID: US 6355837 B1

L8: Entry 21 of 33

File: USPT

Mar 12, 2002

US-PAT-NO: 6355837

DOCUMENT-IDENTIFIER: US 6355837 B1

TITLE: Vapor phase carbonylation process using group 4 metal promoted iridium catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Macromol	Claims	KWIC	Draw D
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☐ 22. Document ID: US 6355595 B1

L8: Entry 22 of 33

File: USPT

Mar 12, 2002

US-PAT-NO: 6355595

DOCUMENT-IDENTIFIER: US 6355595 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Group 5 metal promoted iridium carbonylation catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Macromol	Claims	KWIC	Draw D
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☐ 23. Document ID: US 6353132 B1

L8: Entry 23 of 33

File: USPT

Mar 5, 2002

US-PAT-NO: 6353132

DOCUMENT-IDENTIFIER: US 6353132 B1

TITLE: Vapor phase carbonylation process using group 5 metal promoted iridium catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Macromol	Claims	KWIC	Draw D
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☐ 24. Document ID: US 6235673 B1

L8: Entry 24 of 33

File: USPT

May 22, 2001

US-PAT-NO: 6235673

DOCUMENT-IDENTIFIER: US 6235673 B1

TITLE: Carbonylation catalyst supported on a carbonized polysulfonated  
divinylbenzene-styrene copolymer

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw De
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☐ 25. Document ID: US 6160163 A

L8: Entry 25 of 33

File: USPT

Dec 12, 2000

US-PAT-NO: 6160163

DOCUMENT-IDENTIFIER: US 6160163 A

TITLE: Method for the vapor-phase carbonylation of lower aliphatic alcohols using a  
supported platinum catalyst and halide promoter

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw De
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☐ 26. Document ID: US 6159896 A

L8: Entry 26 of 33

File: USPT

Dec 12, 2000

US-PAT-NO: 6159896

DOCUMENT-IDENTIFIER: US 6159896 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Iridium catalyst for carbonylation of lower aliphatic alcohols

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw De
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☐ 27. Document ID: US 6137000 A

L8: Entry 27 of 33

File: USPT

Oct 24, 2000

US-PAT-NO: 6137000

DOCUMENT-IDENTIFIER: US 6137000 A

TITLE: Method for carbonylation of lower aliphatic alcohols using a supported  
iridium and lanthanide series catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw De
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☐ 28. Document ID: US 6066762 A

L8: Entry 28 of 33

File: USPT

May 23, 2000

US-PAT-NO: 6066762

DOCUMENT-IDENTIFIER: US 6066762 A

TITLE: Process for the production of carbonyl compound

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KM/C	Draw. De
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29. Document ID: US 5932764 A

L8: Entry 29 of 33

File: USPT

Aug 3, 1999

US-PAT-NO: 5932764

DOCUMENT-IDENTIFIER: US 5932764 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Iridium-catalyzed carbonylation process for the production of a carboxylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KM/C	Draw. De
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30. Document ID: US 5900505 A

L8: Entry 30 of 33

File: USPT

May 4, 1999

US-PAT-NO: 5900505

DOCUMENT-IDENTIFIER: US 5900505 A

TITLE: Heterogeneous vapor phase carbonylation process

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KM/C	Draw. De
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☐ 31. Document ID: US 5831120 A

L8: Entry 31 of 33

File: USPT

Nov 3, 1998

US-PAT-NO: 5831120

DOCUMENT-IDENTIFIER: US 5831120 A

TITLE: Process for the production of acetic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Abstracts	Claims	KMIC	Draw De
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☐ 32. Document ID: US 5281751 A

L8: Entry 32 of 33

File: USPT

Jan 25, 1994

US-PAT-NO: 5281751

DOCUMENT-IDENTIFIER: US 5281751 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Synergistic production of carboxylic acids from alcohols

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Abstracts	Claims	KMIC	Draw De
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☐ 33. Document ID: US 4927967 A

L8: Entry 33 of 33

File: USPT

May 22, 1990

US-PAT-NO: 4927967

DOCUMENT-IDENTIFIER: US 4927967 A

TITLE: Production of carboxylic acids from organic formate esters using rhodium complex catalysts

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Abstracts	Claims	KMIC	Draw De
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